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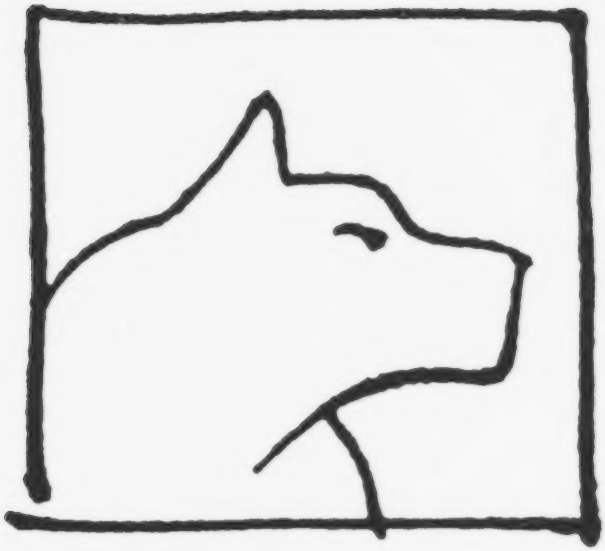

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VSNAA. Markov, IU.M. ; Svyrydenko, V.IA.-Kostenko, L.O.-Kalmykova, L.S.-Dushko, M.I.-Kuznetsov, V.A.-Malych, T.P. Kyiv : Derzh. vid-vo sil'hosn. Visnyk s:l's'kohospodars'koi nauky, Dec 1984. (612. p. 45-48. (NAL Call No.: DNAL 20 V82).

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Animal behaviour and environment in the dark-cutting condition in beef--a review.
IFSTD. Tarrant, P.V. Dublin : An Foras Taluntais, Irish journal of food science and technology, 1989. v. 13 (1). p. 1-21. Includes references. (NAL Call No.: DNAL TP368.I7).
Dark cutting or high-pH meat is a persistent quality defect found in all meat species. Caused by a lack of normal acidification of meat during rigor development, dark-cutting is a direct consequence of low muscle glycogen at slaughter. Glycogen breakdown in muscle may be rapidly triggered by increased circulating adrenaline or by strenuous muscular activity. In addition, glycogen is slowly depleted during starvation. Any behaviour and environmetal circumstances that trigger one or more of these glycogen breakdown mechanisms will cause dark-cutting if the stress is allowed to persist for sufficient time. Mounting activity is the behaviour most closely associated with muscle glycogen depletion and dark-cutting in beef. This behaviour is stimulated by social regrouping, as in mixed penning of young bulls, and also by oestrus in groups of females. Lairage modifications aimed at reducing mounting activity during the preslaughter period have been successful. Short-haul road transport is not associated with dark-cutting in beef but there is evidence that some lambs may be affected, even by relatively short journeys. Long-haul road transport resulted in small increases in beef final pH and these may be reversed by resting and feeding before slaughter.

Fasting did not cause dark-cutting in beef or lamb; however, it lowered muscle glycogen reserves, thus rendering an animal more susceptible to dark-cutting from additional sources of stress. Fasting also inhibited muscle glycogen resynthesis during recovery after stress. There is a good theoretical basis, although little experimental evidence, to link cold exposure with dark-cutting meat. The use of beta-agonists as growth promoters may increase the incidence of dark-cutting meat unless a sufficient withdrawal period before slaughter is observed. Rates of glycogen resynthesis are slower in ruminants than in monogastrics, probably due to the lower availability of glucose in ruminants. Although drug interventions were unsucces

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An in vitro bactericidal assay that used bovine heparinized blood was investigated for its usefulness in detecting differences in the bactericidal immunity of calves against Pasteurella haemolytica serotype 1 (Ph1). Greater than 90% of killing occurred within 30 minutes. The substitution of fetal calf serum for autologous calf plasma caused loss of bactericidal activity of the blood. Decomplemented calf serum also was low in bactericidal activity. The blood bactericidal assay appears to be opsonin antibody-dependent and complement-dependent. The coefficient of variation (cv) that can be expected with this assay was established by use of a group of 8 calves; within-day cv maximum was 0.9, and between-day cv maximum was 2.1. The blood bactericidal assay was used to evaluate 30 calves under typical market stress from 4 farms in eastern Tennessee. All calves had decreased bactericidal activity, as they moved into a feedyard in Texas. The bactericidal activity was reduced among sick calves, based on the severity of clinical signs. Morbidity was highest during the first 14 days in the feedlot. During this period, healthy calves had a decreased bactericidal index (BI) of 4 points, and calves with clinical signs of bovine respiratory tract disease for 3 days had a decreased BI of 8 points. The average reduction in the BI of calves with clinical signs of bovine respiratory tract disease for 6 or more days was 14 points.

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JANSAG. Dellmeier, G.R. ; Friend, T.H.-Gbur, E.E. Champaign, Ill. : American Society of Animal Science. Journal of animal science. May 1985. v. 60 (5). p. 1102-1109. Includes 35 references. (NAL Call No.: DNAL 49 J82).

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Effect of heat stress on some blood constituents in cross-bred heifers.
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The effect of pre-fast diet and transport on nitrogen metabolism of calves.
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Jedlicka, J.ZIVVA. ; Mojto, J.-Vancisin, J.-Kmefova, E.-Foltys, V.-Palenik, S. Praha, Ustav. Zivocisna vyroba - Ceskoslovenska akademie zemedelska, Ustav vedeckotechnickych informaci pro zemedelstvi. Apr 1982. v. 27 (4). p. 287-295. ill. 2 p. ref. (NAL Call No.: 49.9 C33).

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Effect of size and shape of weanling feeder steers on marketing and shipping shrink and post-stress feedlot performance.
Billingsley, R. ; McLaren, J.B. Champaign, Ill., American Society of Animal Science. Journal of animal science. 1978. v. 47 (suppl.1). p. 255. (NAL Call No.: 49 J82).

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Effect of sprinkling water on crossbred cows during summer (Physiological responses, control of summer thermal stress).
Thiagarajan, M. ; Michael, R.D. Trichur, The University. The Kerala journal of veterinary science.Kerala Agricultural University. Dec 1978. v. 9 (2). p. 215-220. ill. 6 ref. (NAL Call No.: SF604.K42).

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The effect of "stress hormones" given early in the estrous cycle of beef heifers.
Cummings, C.S. ; Abdalla, G.A.-Pool, S.H.-Godke, R.A.-Ingraham, R.H. Baton Rouge, The Department. Livestock producers' day.Louisiana. Agricultural Experiment Station. Animal Science Dept. 1980. v. 20. p. 203-206. ill. (NAL Call No.: 43.9 L932).

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Slobodianyk, K.F. Kyiv, "Urozhai". Visnyk sil's'kohospodars'koi nauky. Jan 1980. Jan 1980. (1). p. 33-35. 5 ref. (NAL Call No.: 20 V82).

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0115
Effect of temperature stress on circulating biogenic amines in bovine.
CBPCB. Davis, T.P. ; Johnson, H.D.-Gehrke, C.W. Oxford : Pergamon Press. Comparative biochemistry and physiology. C: Comparative pharmacology and toxicology. 1984. v. 79 (2). p. 369-373. Includes references. (NAL Call No.: DNAL QP901.C6).

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The effect of the stress of weaning and transport on white blood cell patterns and fibrinogen concentration of beef calves of different genotypes.
CNJNA. Phillips, W.A. ; Juniewicz, P.E.-Zavy, M.T.-Von Tungeln, D.L. Ottawa : Agricultural Institute of Canada. Canadian journal of animal science. June 1989. v. 69 (2). p. 333-340. Includes references. (NAL Call No.: DNAL 41.8 C163).

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Effect of thermal stress on certain blood constituents in hill steers.
Tripathi, S.S. ; Rao, M.V.N. Calcutta. Indian journal of animal health. June 1978. v. 17 (1). p. 47-51. ill. 16 ref. (NAL Call No.: SF1.I4).

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Effect of transport on feeder calves.
AJVRAH. Cole, N.A. ; Camp, T.H.-Rowe, L.D. Jr.-Stevens, D.G.-Hutcheson, D.P. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Feb 1988. v. 49 (2). p. 178-183. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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Effect of transportation on calves organism (Stress factors). Russian.
Pastukhova, L.A.VETNA. Moscow : "Kolos". Veterinariia. June 1981. June 1981. (6). p. 60-61. (NAL Call No.: 41.8 V6426).

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Effect of transportation stress on ovarian function in superovulated Hereford heifers.
THGNB. Edwards, L.M. ; Rahe, C.H.-Griffin, J.L.-Wolfe, D.F.-Marple, D.N.-Cummins, K.A.-Pitchett, J.F. Los Altos, Calif. : Geron-X. Theriogenology. Sept 1987. v. 28 (3). p. 291-299. Includes references. (NAL Call No.: DNAL QP251.A1T5).

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Effect of transportation stress on ovulation rate in superovulated Hereford heifers.
Rahe, C.H. ; Edwards, L.E.-Marple, D.N.-Cummins, K.A.-Pritchett, J.F.-Wolfe, D.F. Auburn, Ala. : The Station. Highlights of agricultural research - Alabama, Agricultural Experiment Station. Spring 1984. v. 31 (1). p. 15. ill. (NAL Call No.: 100 AL1H).

0122
Effect of xylazine in heifers under thermoneutral or heat stress conditions.
AJVRAH. Fayed, A.H. ; Abdalla, E.B.-Anderson, R.R.-Spencer, K.-Johnson, H.D. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Jan 1989. v. 50 (1). p. 151-153. Includes references. (NAL Call No.: DNAL 41.8 AM3A).
A study was performed to assess the effect of xylazine HCl (0.1 mg/kg of body weight, IV) in heifers maintained at thermoneutrality (18 C, 42% humidity)

or under heat stress (33 C, 63% humidity) conditions. Xylazine caused 50 and 70% decreases in serum insulin concentrations in the thermoneutral and heat-stressed heifers, respectively. Xylazine-induced hypoinsulinemia was associated with hyperglycemia. In the thermoneutral group, serum glucose concentrations increased from a basal concentration of 75 mg/dl to 150 mg/dl after 15 minutes. In the heat stress group, the serum glucose concentration increased from 65 mg/dl to 105 mg/dl. Hyperglycemia peaked at 2 hours and remained high for 6 hours after xylazine administration. Heat-stressed heifers took a longer time (107 minutes) to stand than did heifers under thermoneutral conditions (41 minutes). The time to regain sensation to pain was significantly prolonged in heat-stressed heifers. Xylazine had no effect on body temperature and respiration rate in heifers under the thermoneutral conditions, whereas it markedly induced hyperthermia and suppressed respiration rate in the heat-stressed heifers. Furthermore, the pulse rate was slightly decreased in thermoneutral heifers and was markedly decreased in the heat-stressed heifers.

0123
Effects of a hot climate on the performance of first lactation Holstein cows grouped by coat color.
JDSCAE. King, V.L. ; Denise, S.K.-Armstrong, D.V.-Torabi, M.-Wiersma, F. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Apr 1988. v. 71 (4). p. 1093-1096. Includes references. (NAL Call No.: DNAL 44.8 J822).

0124
Effects of bovine somatotropin on milk yield and composition, dry matter intake, and some physiological functions of Holstein cows during heat stress.
JDSCAE. Zoa-Mboe, A. ; Head, H.H.-Bachman, K.C.-Baccari, F. Jr.-Wilcox, C.J. Champaign, Ill. : American Dairy Science Association. Journal of dairy science. Apr 1989. v. 72 (4). p. 907-916. Includes references. (NAL Call No.: DNAL 44.8 J822).

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The effects of castration, preslaughter stress and zeranol implants on beef. 1. The texture of loin steaks from bovine males.
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carcasses had higher pH values (P less than 0.01) and psychrotrophic, lactobacillus, anaerobic and aerobic counts than from nonstressed carcasses. Lactobacilli did not dominate the microbial population. Electrical stimulation (ES) and the cuts used had an influence on shear force values (P less than 0.05). ES cuts were significantly more tender than controls. Results suggest that animals should be well rested before slaughter.(author)

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Effects of experimental heat stress on physiological and spermatological criteria of insemination bulls under consideration of their apocrine gland population. Auswirkungen experimenteller Warmebelastung auf physiologische und spermatologische Kriterien von Besamungsbullen unter Berucksichtigung ihrer Schlauchdrusendichte /vorgelegt von Gerhard Sehr. German.
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